TSD File Inventory Index

Date: Soway 26, 2007 Initial: Um Berevad

Facility Name: In again Instrum Inc. (Vintro) Pingulation Division) Facility Identification Number: 11.052324290				
Facility Identification Number: OH.D	05	2324290		
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A.2 Part A / Interim Status	j	.1 Correspondence		
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.1 Correspondence		.2 RFI Workplan		
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To the state of th		5. RFI QAPP		

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.6 RFI QAPP Correspondence	.8 Progress Reports
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.6 CMI QAPP Correspondence	.9 Environmental Justice
To be a second s	

Note:	Transmittal	Letter to	Ве	Included	with	Reports
Comr	nents:					.*

NOV 26 1990

Mr. Ken Kupcak Vernitron Piezoelectric 232 Forbes Road Bedford, Ohio 44146-5478

Re: Compliance Letter

Vernitron Piezoelectric Division

OHD 052 324 290

Dear Mr. Kupcak:

On June 26, and July 5, 1989, the Ohio Environmental Protection Agency (OEPA), representing the United States Environmental Protection Agency (U.S. EPA), conducted a Resource Conservation and Recovery Act (RCRA) inspection of the above referenced facility. The purpose of the inspection was to determine the compliance status of this facility with respect to the applicable hazardous waste management requirements of Chapter 3734 of the Ohio Revised Code, and also the land disposal restriction regulations as set forth in 40 CFR Part 268 and in revisions to 40 CFR Parts 260-265, 268, 270, and 271.

As a result of the inspection, it appears that the subject facility is in compliance with the land disposal restriction regulations found in 40 CFR Part 268.

Thank you for your cooperation. If you have any questions concerning this letter, please contact Gordon Garcia of my staff at (312) 886-8097.

Sincerely yours,

Sally K. Swanson, Chief IN/MN/OH Enforcement Program Section

Enclosure

cc: Mike Savage, OEPA

Gregory Taylor, NEDO

bcc: Sally Swanson, REB

5HR-12 garcia.walker 6-8093 diskette #5 filename: ken.kup

CONCUR	RENCE REC	QUESTED F	ROM REB
OTHER	REB	REB	REB
STAFF	STAFF	SECTION	BRANCH
		CHIEF	CHIEF
GW 1931/40	8/1/	H5, 290	



State of Ohio Environmental Protection Agency

Northeast District Office 110 E. Aurora Road Twinsburg, Ohio 44087 (216) 425-9171

Richard F. Celeste Governor

LEr

August 15, 1989

RE: VERNITRON PIEZOELECTRIC DIVISION

CUYAHOGA COUNTY OHD 052-324-290

G/TSD

CERTIFIED MAIL

Ken Kupcak Vernitron Piezoelectric 232 Forbes Road Bedford, Ohio 44146-5478

Dear Mr. Kupcak:

The purpose of this letter is to summarize the results of my recent RCRA inspection of your facility, which occurred on June 26, 28, and July 5, 1989. This inspection was conducted in order to determine your facility's compliance with State and Federal hazardous waste rules and regulations. Cas Stevens and yourself represented Vernitron Piezoelectric. Robert Finkelstein of Toxcon Engineering attended the July 5, 1989 meeting and also represented Vernitron Piezoelectric. Sherry Slone, who was present on June 28, 1989, and myself represented the Ohio EPA.

The following violations were noted during the inspection:

1. Rule 3745-52-20(C) of the OAC and 40 CFR 262.20(b), because Vernitron failed to ship their hazardous waste to a facility that is permitted to handle the waste describe on the manifest;

The silver/tetrachlorethylene waste is sent for reclaimation to Eastern Smelting and Refining located in Lynn, Mass. This facility is not permitted to receive this waste since this waste is a land ban waste.

- 2. Rule 3745-52-33 of the OAC and 40 CFR 262.33 because Vernitron failed to offer to placard the initial transporter of hazardous waste.
- 3. Rule 3745-52-34(A)(3) of the OAC and 40 CFR 262.34(a)(3), because Vernitron failed to clearly mark containers with the words "Hazardous Waste":

Two containers of hazardous waste not marked with the words "Hazardous Waste" were noted in the area of the hazardous waste nickel plating solution container storage area.

4. Rule 3745-52-34(A)(2) of the OAC and 40 CFR 262.34(a)(2), because Vernitron failed to clearly mark containers with accumulation dates;

- Seven containers of hazardous waste without accumulation dates were noted in the area of the hazardous waste nickel plating solution container storage area.
- 5. Rule 3745-55-73(A) of the OAC and 40 CFR 265.173(a), because the facility had drums containing hazardous wastes which were stored opened.
 - Containers of hazardous wastes were stored opened at the hazardous wastes storage area located near the receiving dock and at the satellite accumulation area outside the nickel plating room.
- 6. Rule 3745-66-74 of the OAC and 40 CFR 265.174, because Vernitron has failed to conduct weekly inspection of the drum storage areas for evidence of leaks or corrosion and failure to document inspections.
 - Documentation shown during the inspecting indicates that the drum storage areas have not been inspected since June 30, 1988.
- 7. Rule 3745-52-34(C)(1)(b) of the OAC and 40 CFR 262.34(c)(1)(ii), because the facility failed to have a drum containing hazardous waste at its satellite accumulation station marked with the words "Hazardous Waste".
 - The drum outside the nickel plating room was not properly marked as containing hazardous waste.
- 8. Rule 3745-52-41 of the OAC, because the facility has failed to submit an annual generator report to the State.
- 9. Rule 3745-65-37(A) of the OAC and 40 CFR 265.37(a) because Vernitron has failed to make the appropriate arrangements with local authorities;
 - Vernitron needs to familiarize local authorities with the types of wastes handled at this facility and associated hazardous of the waste.
- 10. Rule 3745-65-52 of the OAC and 40 CFR 265.52, because Vernitron has failed to maintain a contingency plan as required and must provide":
 - a. Arrangements agreed to by local police department, fire department, hospital, contractors and state and local emergency response teams to coordinate emergency services.
 - b. List of names, addresses and phone numbers of all persons qualified to act as emergency coordinator. One person must be designated as the primary emergency coordinator.
 - c. A list of all emergency equipment, the location of the equipment and a physical description of each item on the list.

- 11. Rule 3745-65-54(A) of the OAC and 40 CFR 265.54, because the facility has failed to amend the contingency plan as the result of changes in the list of emergency coordinators and the list of emergency equipment.
- 12. Rule OAC 3745-65-53(A),(B) and 40 CFR 265.53, because facility has failed to forward copies of the contingency plan to local and state emergency service authorities.
- 13. Rule 3745-65-16 of the OAC and 40 CFR 265.16, because the facility has failed to provide an adequate personnel training program.
- 14. Rule 3745-65-16(B)(C) of the OAC and 40 CFR 265.16(b)(c), because the facility has failed to provide the required annual hazardous waste training for its employees.
- 15. Rule 3745-65-16(D)(E) of the ;OAC and 40 CFR 265.16(d)(e), because Vernitron has failed to maintain for each employee involved in the handling/management of hazardous waste records of their job titles, job descriptions and documented employee training records.
- 16. Rule 3745-58-60(C)(1-3) of the OAC and 40 CFR 266.70(c)(1-3), because the facility failed to document the amount of recoverable precious metal;
 - a. stored at the facility at the beginning of the calendar year;
 - b. generated during the calendar year;
 - c. stored at the facility at the end of the calendar year.

Please address the above generator violations and submit related documentation within 30 days of receipt of this letter.

Storage Violations:

- 1. Facility does not have an adequately written waste analysis plan as required by 40 CFR 265.13(b) and OAC 3745-65-13(B).
- 2. Facility has not maintained a written operating record as require by OAC 3745-65-73 and 40 CFR 265.73.
- 3. Facility has not conducted daily inspections of container storage areas for spills as required by 40 CFR 265.15(b)(4) and OAC 3745-65-15(B)(4).
- 4. Facility has failed to establish financial assurance for closure as required by OAC 3745-66-43 and 40 CFR 265.143.
- 5. Facility does not have a written inspection schedule as required by OAC 3745-65-15 and 40 CFR 265.15.

Page Number 94 August 15, 1989 Ken Kupcak

- Facility failed to obtained a detailed chemical and physical analyses of 6. hazardous wastes stored at the facility, in violation of 40 CFR 265.13(a) and OAC 3745-65-13(A).
- Facility has stored hazardous wastes on-site in excess of allowable generator time limits without first having obtained a hazardous waste installation and operator permit from the Hazardous Waste Facility Board, in violation of Ohio Revised Code Section 3734.02(F).

The facility is liable for compliance with applicable State and Federal Treatment, Storage and Disposal Regulations until such time as when the facility has returned to a generator status.

During the inspection a drum of Toluene dated January 4, 1989, was discovered in the drum storage area near the receiving dock this waste exceeded the permissible 90 day accumulation time of hazardous wastes for generators. A generator who accumulates hazardous waste for more than 90 days is an operator of a storage facility and is subject to the requirements of 40 Code of Federal Regulations (CFR) Parts 264 and 265 and Chapters 3745-54 through 3745-58, 3745-65 through 3745-69 of the Ohio Administrative Code (OAC) and the permit requirements of 40 CFR 270, OAC Chapter 3745-50 and Section 3734.02(F) of the Ohio Revised Code. Vernitron Piezoelectric must therefore submit in the amended closure plan that addresses the outside drum storage area procedures addressing the clean closure of the inside drum storage area. The appropriate copies of the amended closure plan must be submitted to Tom Crepeau by September 8, 1989.

Please note that the Land Ban Restriction Inspecting, completed as part of this inspection is being forwarded to the U.S. EPA, Region V for appropriate followup.

If you have any questions concerning the requests or violations cited in this letter, please feel free to contact me at (216) 425-9171.

Sincerely,

Environmental Scientist

Division of Solid and Hazardous Waste

Management

Gregory Taylor

GT/sp

Enclosures

cc: Carolyn Reierson, DSHWM, Central Office Debby Berg, DSHWM, NEDO

WILLIAM C. RAGALS, JR. VICE PRESIDENT, SECRETARY AND GENERAL COUNSEL

July 31, 1989

BOND A

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Division of Solid and Hazardous Waste Management State of Ohio Environmental Protection Agency Northeast District Office 2110 East Aurora Road Twinsburg, Ohio 44067

Attn: Mr. Greq Taylor

Re: Piezoelectric Division of Vernitron, Bedford, Ohio

ID #OHD052324290/02-18-0649

Gentlemen:

This is to advise you that on July 27, 1989, this Corporation sold all of the assets of its Piezoelectric Division located in Bedford, Ohio including the land and buildings located at 232 Forbes Road, Bedford, OH 44146 to MM Piezo Products, Inc., a wholly owned subsidiary of the Morgan Crucible Company plc.

Pursuant to the Asset Purchase Agreement dated July 27, 1989 between this Corporation and MM Piezo Products, Inc., this Corporation remains responsible with respect to cleanup, reporting and testing relating to environmental conditions addressed in the Report of Partial Closure Plan for Vernitron's Piezoelectric Division dated October 31, 1988 as submitted to you, and as supplemented from time to time. Accordingly, Vernitron, through its agents and employees, will continue to provide you with all analytical and other data and submit to you a revised closure plan as soon as practicable.

Division of Solid and Hazardous Waste Management State of Ohio EPA

July 28, 1989 Page Two

Toxcon Engineering Company, Inc., Vernitron's environmental consultant, will continue to be retained by Vernitron for the purpose of implementing and concluding the investigation and closure activities.

If you have any further questions in this matter, kindly communicate directly with Mr. Robert Finkelstein of Toxcon Engineering Company or with me.

Very truly yours,

William C. Ragals, Jr. Vice President, Secretary

and General Counsel

WCR:ss

cc: Waste Management Division United States Environmental Protection Agency, Region 5
230 South Dearborn Street
Chicago, IL 60604
Attn: Rebecca Strom

RCRA Enforcement Section
Division of Solid and Hazardous Waste Management
State of Ohio Environmental Protection Agency
P.O. Box 1049
1800 Water Mark Drive
Columbus, OH 43266-1049
Attn: Carolyn J. Reierson

Mr. Ron Roch MM Piezo Products, Inc.

RCRA INTERIM STATUS INSPECTION FORM

	ty Name: <u>Jenning Pietovientnia</u> s: <u>177 Finler</u> Rd. 3ed food on 40 40-5472	Date of Inspection HWFB #: USEPA ID #: OHD 253		5/
County		Facility Phone #: (2/6)		
	ty Contact: Ken Kapcak	Facility Contact Phone Safety Equipment #:		
Inspec	tor(s)Name(s): 6 range Taylor			
ACTIVI Contai Waste	Ex. SQG SQG Generator_ Transporter	ncineration/Thermal treatm		
1.	Does the facility produce "discarded mate 3745-51-02(A)?	rials" as defined in	Y/N/NA REMARK #	
2.	Are they: a. Abandoned(disposed;incinerated;actreated prior to disposal)? b. Recycled? c. Inherently waste-like?(F020,F021,	and the second s	1 / N = = = = = = = = = = = = = = = = = =	_
3.	If recycled or accumulated, treated or st recycling, is the waste: a. Used in a manner constituting dis b. Burned for energy recovery? c. Reclaimed? (Refer to Table 1 of 3	posal?		-
4.	 d. Accumulated speculatively? Is the material recycled by being: a. Used or reused as an ingredient is make a product without prior recl b. Used as an effective substitute for the original process without prior reclamation as a sur 	amation? or commercial products? from which it was generate	d ,	_
	feedstock?	ar a		

		Y/N/NA	REMARK #
5.	Are LDR wastes generated? If so, complete appropriate LDR checklist	·	
6.	Has the facility submitted a Part A to Ohio?	- ' ' X	Chairman
7.	If yes, is it complete and accurate?		· · · · · · · · · · · · · · · · · · ·
8.	If not accurate, has a PCR been submitted? If yes, what date was the PCR submitted?		
9.	Is the facility operating in compliance with the terms and condition of its HWFB permit?	s 	«шинишенный марка по
10.	Has the facility submitted a Part B?		
11.	Was advance notice of the inspection given? If so, how far in advance?	11.	GEOGRAPHIC CONTRACTOR

* In process of withdrawl of permit

REMARKS. GENERAL INFORMATION.

Include list of wastes being generated/managed at the site and a brief description of site activity and waste handling.

The facility produces The following wastes:

- 1. Silver weste which is reclaimed by Material Processing, St. Real Minn. The silverweste is on ceramic products , w.p.s.; gloves; and cans.

 Doog 1001
- 2. Tetrachlorethylene of Silver (Fooi) the silver is reclaimed by Eastern Smelting a Refining , Lynn Mass.
- 3. Tetrachloretylene (Fool) used in degreasing of parts.
- 4. Ethanol (Deol)
- 5. Nickel Plating Solutions (Foot)
- 6. Dich. oremethane- Fluorocarbon TMC (FOO)
- 7, Tolura (FOOS)
- 8. Waste Chromic Acid (Doo7/Doo3)
- The facility does produce a lead waste which is reclaimed and exempt from regulation.

The primary activity at this facility is the manufacture of Lead Zirconate Titanute (PZT) Ceramics.

لمر	3745-52 G	ENERATOR REGUIREMENTS (40 CFR Part 262)	Y/N/NA	REMARK #
4.		he wastes generated at this facility been evaluated as ed under 3745-52-11 (262.11)?	¥	
2.		his facility generate any hazardous wastes that are excluded egulation under 3745-51-04 (261.4)?	N	
3.	exclude [3745- neutra	his facility have waste or waste treatment equipment that is ed from regulation because of totally enclosed treatment 65-01] (265.1(c)(9)) or via operation of an elementary lization unit and/or wastewater treatment unit 65-01] (265.1(c)(10))?	-y-	
4.	or con	generator classified as a Small Quantity Generator (SQG) ditionally exempt SQG? complete appropriate checklist.		
5.		he generator meet the following requirements with respect to eparation, use and retention of the hazardous waste manifest:		
	a.	All hazardous wastes shipped off-site have been accompanied by a completed manifest using the most recently revised USEPA form 8700-22?	V	
	5.	The manifest form used contains all the information required by 3745-52-20 (262.20) and the minimum number of copies required by 3745-52-22 (262.22)?	/	
	c.	The generator has designated at least one permitted disposal facility and has/will designate an alternate facility or instructions to return waste in compliance with 3745-52-20(C)(D)(E) (262.20)?	~/ N	
	d.	Prepared manifests have been signed by the generator and initial transporter in compliance with 3745-52-23(A)(1&2) (262.23)?	ÿ	
	e.	The generator has complied with manifest exception reporting requirements in 3745-52-42 (262.42(a))?	NA	
	f.	Signed copies of all hazardous waste manifests and any documentation required for Exception Reports are retained for at least 3 years as required by 3745-52-40 (262.40)?		

			Y/N/NA	REMARK #
6.	Does th	e generator meet the following hazardous waste pre-transport ments:	<u> </u>	
	a.	Prior to offering hazardous wastes for transport off-site, the waste material is packaged, labeled, and marked in accordance with applicable DOT regulations [3745-52-30, 3745-52-31, and 3745-52-32] (262.30, 262.31, 262.32)?		
	b.	Prior to offering hazardous waste for transport off-site, each container with a capacity of 110 gallons or less is affixed with a completed hazardous waste label as required by 3745-52-32 (262.32)?	· /	· · · · · · ·
	c.	Prior to offering hazardous wastes for transport off-site, the generator meets requirements for properly placarding or offering to properly placard for the initial transporter of the waste material in compliance with 3745-52-33	***	,
	Does the	(262.33)? e generator import or export hazardous waste?	<u>N</u> N	
		If so, are the wastes handled in accordance with the requirements of 3745-52-50 (262.50)?	NA	Control and the Control of the Contr
3.	containe facility 3745-52-	generator elects to accumulate hazardous waste on-site in ers or tanks for 90 days or less without a hazardous waste y installation and operation permit as provided under -34 (262.34), are the following requirements with respect to cumulation met:		
	a.	The containers or tanks are clearly marked with the words "Hazardous Waste"?	\mathcal{N}'	
	5.	The date that accumulation began is clearly marked on each container?	<i>,</i> V′	
	с.	If the waste is accumulated in containers, the generator is complying with OAC 3745-66-71 to 3745-66-74 and 3745-66-76 to 3745-66-77? Complete Management of Containers checklist.	N	

		Y/N/NA	REMARK #
d.	If the waste is accumulated in tanks, the generator is complying with OAC 3745-66-90, 3745-66-91, 3745-66-92, 3745-66-94, and 3745-66-97 to 3745-66-99 except OAC 3745-66-97(C)? Complete Storage and Treatment in Tanks checklist.	_nA_	
e.	If the generator accumulates waste at or near the point of generation which is under the control of the operator of the process generating the waste as allowed by 3745-52-34(C) are the following requirements met:		
	 Quantities of waste accumulated do not exceed 55 gallons at any time? Quantities of acutely hazardous waste accumulated do 	-	
	not exceed 1 quart at any one time? 3. If the generator is accumulating hazardous waste in accordance with e.1 or e.2, above, has the generator marked the containers with words "Hazardous Waste" or with other words identify the contents of the container and is the generator complying with OAC 3745-55-71, 3745-55-72, 3745-56-73(A),	<u>N</u> F	
	3745-55-76, and 3745-55-77? 4. If the generator accumulates hazardous wastes in excess of the amounts listed in either e.1 or e.2, above, did the generator comply with 3745-52-34(A) (262.34(a)) within three (3) days and mark the container holding the excess accumulation with the date the excess accumulation began accumulating?		
	genertor accumulated hazardous wastes in excess of (90) days?	_y	
	e generator been granted an extension by the Director/ al Administrator for accumulation in excess of ninety ays?	<u>N</u>	
offered a USEPA	e generator treated, stored, disposed of, transported or if for transportation hazardous waste without having obtained identification number from the Administrator as required 3745-52-12 (262.12)?	_ <i>N</i>	

9.

10.

11.

		Y/N/NA	REMARK #
12.	Does the generator provide a Personnel Training Program in compliance with 3745-65-16(A)(B)(C) (265.16) including instruction in safe equipment operation and emergency procedures, training new employees within 6 months and providing an annual training program refresher course? [3745-52-34(A)(4)] (262.34)		
3.	Does the generator keep all of the records required by 3745-65-16(D)(E) (265.16) including written job titles, job descriptions and documented employee training records? [3745-52-34(A)(4)] (262.34)		. www.diffgenesses.eds-spanies.
4.	Has the generator filed annual reports on or before March 1st of the next calendar year as required by 3745-52-41?	<u>N</u>	en manus de serie manus manus de serie
5.	Does the generator comply with the applicable requirements for owners or operators of hazardous waste facilities? Complete "Preparedness and Prevention" and "Contingency Plan and Emergency Procedures" checklists.	\mathcal{N}_{-}	

REMARKS, GENERATOR REQUIREMENTS

OAC 3745-65-et seq. GENERAL FACILITY STANDARDS (40 CFR Part 265, SUBPART B)

		Y/N/NA	REMARK #
1.	Does the owner/operator (o/o) have a detailed chemical and physical analysis of the waste material containing all of the information which must be known to properly treat or store the waste as required by 3745-65-13(A)(1) (265.13(a))?		metragiiciyy tologogan
2.	Does o/o have a written waste analysis plan which describes analytical parameters, test methods, sampling methods, testing frequency and responses to any process changes that may affect the character of the waste. [3745-65-13(B)] (265.13(b))	_N	***************************************
3.	 a. Would physical contact with the waste structures or equipment injure unknowing/unauthorized persons or livestock entering the facility? [3745-65-14(A)(1)] (265.14(a)(1)) b. Would disturbance of the waste cause a violation of the hazardous waste regulations? [3745-65-14(A)(2)] (265.14(a)(2)) 	× ×	
ĭF	BOTH 3A and 3B ARE NO, MARK QUESTIONS 4 AND 5 NOT APPLICABLE.		
4.	Does the facility have -		
	 A 24-hour surveillance system, or An artificial or natural barrier and a means to control entry at all times [3745-65-14(B)(2)(a and b)] (265.14(b)(2)) 	/	
5.	Does the facility have a sign "Danger-Unauthorized Personnel Keep Out" at each entrance to the active portion of the facility and at other locations as necessary. [3745-65-14(C)](265.14(C))	-y-	·
6.	a. Has the o/o developed and followed a comprehensive, written inspection plan and documented the inspections, malfunctions and any remedial actions taken in an operating record log which is kept for at least three years. [3745-65-15] (265.15)	/ _N	

			Y/N/NA	KEMARK #
	b.	Are areas subject to spills (i.e., loading and unloading areas, etc.) inspected daily when in use and according to other applicable regulations when not in use. [3745-65-15(B)(4)] (265.15(b)(4))	<u> </u>	45000 management of the second
7.	with ment emplo	the o/o provided a Personnel Training Program in compliance 3745-65-16(A)(B)(C) including instruction in safe equipoperation and emergency response procedures, training new spees within 6 months and providing an annual training ram refresher course. (265.16(a)(b)(c))	N	
8.	inclu	o/o keep all records required by 3745-65-16(D)(E) ding written job titles, job descriptions and ented employee training records. (265.16(d)(e))	<u> N</u>	
9.	does	nitable, Reactive or incompatible wastes are handled, the facility meet the following requirements? -65-17](265.17)	· _ y _	
	а. b. c. d.	Protection from sources of ignition. Physical separation of incompatible waste materials. "No Smoking" or "No Open Flames" signs near areas where Ignitable or Reactive wastes are handled. Comingling of waste materials is done in a controlled, safe manner as prescribed by 3745-65-17(B) (265.17(b)	-y -y -NA	

OAC 3745-65 PREPAREDNESS AND PREVENTION (40 CFR PART 265 SUBPART C)

		Y/N/NA	REMARK #
	Is the facility operated to minimize the possibilty of fire, explosion, or non-planned release of hazardous waste? [3745-65-31] (265.31)	sitter-amount florence in our	- «намента «СРП» помента и поседуу».
9 6 v	Has there been a fire, explosion or non-planned release of waste at the facility?	11/	 Фудуанский музеруный минуна
3.	<pre>If required due to actual hazards associated with the waste, does the facility have the following equipment: [3745-65-32(A)(B)(C)(D)] (265.32) a.</pre>		
<u> </u>	Is all required spill control and decontamination equipment, fire and communications equipment tested and maintained as necessary? [3745-65-33] (265.33)	- y	Annial
5.	If required due to the actual hazards associated with the waste, do personnel have immediate access to an emergency communication device during times when hazardous waste is being physically handled? [3745-65-34] (255.34)	- y	
Ĉ.	If required due to the actual hazards associateed with the waste, is adequate aisle space to allow unobstructed movement of emergency or spill control equipment maintained? [3745-65-35] (265.35)		
7.	If required due to the actual hazards associated with the waste, has the facility attempted to make appropriate arrangements with local authorities to familiarize them with the possible hazards and the facility layout? [3745-65-37(A)] (265.37(a))	p/	

Y/N/NA	REMARK	4
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8. Where state or local emergency service authorities have declined to enter into any proposed special arrangements or agreements, has the refusal been documented. [3745-65-37(B)] (265.37(b))

NF ____

OAC 3745-65 CONTINGENCY PLAN AND EMERGENCY PROCEDURES (40 CFR PART 265 SUBPART D)

		<u>//N/NA</u>	REMARK #
.	Does the o/o have a written Contingency Plan designed to minimize hazards from fire, explosions or unplanned releases of hazardous wastes which contains the following components for the facility? [3745-65-52(A)(B)(C)(D)(E)] (265.52):		
	a. Actions to be taken by personnel in the event of an emergency incident?	ý	
	b. Arrangements or agreements with local or state emergency authorities?	V	
	c. Names, addresses and telephone numbers of all persons qualified to act as emergency coordinator?	N	
	d. A list of all emergency equipment including location, physical description and outline of capabilities?	N'	
	e. If required due to the actual hazards associated with the waste handled, an evacuation plan for facility		-editPennennan medidiPypennen
.	personnel? [3745-65-52(F)] (265.51(f))?	/	
. ,	Is a copy of the Contingency Plan and any plan revisions maintained on-site and has been submitted to all local and state emergency		
	service authorities that might be required to participate in the execution of the plan? [3745-65-53(A)(B)] (265.53)	<u>N</u> _	***************************************
3.	Is the plan revised in response to rule changes, facility, equipment and personnel changes or failure of the plan? [3745-65-54] (265.54)	<u>N'</u>	
) s	Is an emergency coordinator who is familiar with all aspects of site operation and emergency procedures who has the authority to implement all aspects of the Contingency Plan designated at all times (on-site		·
	or on-call)? [3745-65-56(A-J)] (265.56)	7	
5.	If an emergency situation has occurred, has the emergency coordinator implemented all or part of the Contingency Plan and taken all of the actions and made all of the notifications deemed necessary under		
	3745-65-56(A-J). (265.56(a-j))	NA	

OAC 3745-65 MANIFEST SYSTEM/RECORDS/REPORTING (40 CFR PART 265, SUBPART E)

1.

NOTE: THE FOLLOWING REQ \$UIREMENTS ARE APPLICABLE TO BOTH ON-SITE AND OFF-SITE TREATMENT, STORAGE AND DISPOSAL FACILITIES.

		Y/N/NA	REMARK #
facilit	ne o/o maintain a written operating record at the cy as required by 3745-65-73(A) (265.73) which contains lowing information:		
a.	Description and quantity of each hazardous wasta treated, stored or disposed of within the facility and the date and method pertinent to such treatment, storage or disposal? [3745-65-73(B)(1)] (265.73(b)(1).	<u>_v'</u>	
b.	Common name, EPA Hazardous Waste Identification Number and physical state (solid, liquid, gas) of the waste?	M	anny (c-45)*****
C.	The estimated (or actual) weight, volume or density of the waste material?	N	
d.	A description of the method(s) used to treat, store or dispose of the waste using the EPA handling codes listed in Table 2 of OAC 3745? (Part 265, Appendix I, Table 2)	N	
e.	The present physical Todation of each hazardous waste within the facility?	N	
τ.	Records of incidents which require implementation of the Contingency Plan?	\sim	
g.	FOR DISPOSAL FACILITIES, the location and quantity of each hazardous waste recorded on a map of the facility and cross-references to any pertinent manifest document numbers? [3745-65-73(B)(2)] (265.73(b)(2))	N/A	*
h.	Records of any waste analyses and trial tests required to be performed?	N	
i.	Records of the inspections required under 3745-65-15 (265.15) (General Inspection Requirements)?	0/	
j.	Records of any monitoring, testing, or analytical data required under other Supparts as referenced by 3745-65-73(B)(6);(265.73(b)(6))?		

			Y/N/NA	REMARK #
	k.	Records of closure cost estimates and post-closure (DISPOSAL ONLY) cost estimates required under OAC 3745-66 (Part 265 Subpart G)?		455 ⁸ -january processor, page
2.	Disposa	o/o submitted an annual (bienniel) Treatment-Storage- l Operating Report (by March 1) containing all of the ng information required under 3745-65-75 (265.75)?		open mass as a mass and for a shift his large only
NOTE:	THE FOI	LOWING REQUIREMENTS ARE APPLICABLE ONLY TO OFF-SITE TSDS.	/	
3.	Is one o	ifests received by the facility signed and dated? copy given to the transporter, one copy sent to the or within 30 days and one copy kept for at least 3 years? 5-71(A)] (265.71)	1.12	
	a. b.	If shipping papers are used in lieu of manifests (bulk shipments, etc.), are the same requirements met $[3745-65-71(B)]$ (265.71(b))? Are any significant discrepancies in the manifest, as defined in $3745-65-72(A)$ (265.72(a)) noted in writing on the manifest cocument.		
4.	as requ	manifest discrepancies been reconciled within 15 days ired by 3745-65-72(B) (265.72(b)) or has the o/o submitted lired information to the Director/Regional Administrator?		
5.	from off an unmar required	Facility has accepted any unmanifested hazardous wastes f-site sources for treatment, storage, or disposal, has diffested waste report containing all the information by 3745-65-76(A) (265.76) been submitted to the T/Regional Administrator within 15 days?		

OAC 3745-66 CLOSURE AND POST-CLOSURE (40 CFR PART 265, SUBPART G)

		Y/N/NA	REMARK #
1.	Is a written closure plan on file at the facility which contains the following elements: [3745-66-12] (265.112)?		44.00 to 100
	a. A description of how each hazardous waste management unit will be closed in accordance with 265.11.	, Y	
	b. A description of how final closure will meet the requirements of 3745-66-11 (265.111).	*	**************************************
	c. An estimate of the maximum amount of hazardous waste in inventory.	}	200
	d. A description of steps taken to remove or decontamin facility equipment containment systems, structures, soils, and all hazardous waste residues.	late /	The most of the same and the sa
	e. The year closure is expected to begin and a schedule for the various phases of closure.	· 7	— consiste — consisté —
	f. A description of other activities necessary to ensur closure with the performance standards including ground water monitoring, leachate collection, and	e 📝	
	run-off control.	<u>\(\lambda' \) \</u>	
2.	Has the closure plan (and post-closure plan, if applicable) amended 60 days prior to any changes in facility design, processes, or closure dates or 60 days after an unexpected occurs which effects the closure plan? [3745-66-12(C)] (265.112(c))		***************************************
3.	Has the closure plan (and post-closure plan, if applicable) for surface impoundment, waste pile, land treatment or landfill units been submitted to the Director/Regional Administrator 180 days prior to beginning the closure process or 45 days if only have tanks, container storage or incinera [3745-66-12(D)] (265.112(d))		•
1.	Has the closure plan (and post-closure plan, if applicable) for tank, containers storage or incinerator units been submit to the Director/Regional Administrator 45 days prior to beginning the closure process? [3745-66-12(D) (265.112(d))	tted _/	
	_ 28 -	/	

The facility began closure activities in August of 1988. High levels of contamination has required additional sampling of the outside drum storage area.

			Y/N/NA	REMARK #
	5.	Within 90 days of receipt of the final volume of waste or Director's plan approval, if that is later, was all hazardous waste treated, removed, or disposed in accordance with the approved plan? [3745-66-13(A)] (265.113(a))	NA	entrum and an analysis of the second
	6.	Was closure completed in accordance with the approved plan within 180 days after receipt of final volume of waste or approval of the plan, if that is later? [3745-66-13(B)] (265.113(b))	<u> </u>	**************************************
	7.	Did the onwer/operator submit to the Director/Regional Administrator, within sixty (60) days after completion of closure, certification by both the owner/operator and an independent registered professional engineer that the facility has been closed in accordance with the approved closure plan? [3745-66-15] (265.115)	<u> 1/4</u>	
: .i	8.	What permitted units at the facility have been closed in accordance with an approved Closure Plan?	<u>Ni7</u>	and the second s
	9,	If closure was partial, list-the regulated units which remain in use at the facility:		
	10.	If required, has the facility prepared a written post-closure plan? [3745-66-18] (265.118)	NA	
	11.	Does the post-closure plan include:		
		 a. A description of proposed ground water monitoring? b. A description of planned maintenance activities? c. The name, address and phone number of person/office to contact during the post-closure period? 	NA NA NA	
	12.	For disposal facilities, has the owner/operator submitted to local land authorities and the Director a survey plat within 60 days after certification of closure? [3745-66-19] (265.119)	NA	

		Y/N/NA	REMARK 3
	owner of the property on which a disposal unit is located d on the deed that:		
a.	The land has been used to manage hazardous waste and the type, quantity and location of waste?	NA	
b.	Land use is restricted pursuant to 3745-66-17?		entitionius avenuses

OAC 3745-66 USE AND MANAGEMENT OF CONTAINERS (40 CFR PART 265, SUBPART I)

1. Are hazardous wastes stored in containers which are: a. Closed [3745-66-73(A)] (265.173)? b. In good condition [3745-66-71] (265.171)? c. Compatible with the wastes stored in them [3745-66-72] (265.172)? 2. Are containers stored closed except when it is necessary to add or remove wastes? [3745-66-73(A)] (265.173(a)) 3. Are hazardous waste containers stored, handled and opened in a manner which prevents container rupture or leakage? [3745-66-73(B)] (265.173(b)) 4. Is the area where containers stored inspected for evidence of leaks or corrosion at least weekly? [3745-66-74] (265.174) [documentation of inspections required under 3745-65-15 for TSDs] 5. Are containers holding ignitable or reactive waste located at least 50 feet (15 meters) from the facility's property line? [3745-66-76] (265.176) Are containers holding hazardous wastes stored separate from other materials which may interact with the waste in a hazardous manner? [3745-66-77(C)] (265.177(c))			Y/N/NA	REMARK #
add or remove wastes? [3745-66-73(A)] (265.173(a)) Are hazardous waste containers stored, handled and opened in a manner which prevents container rupture or leakage? [3745-66-73(B)] (265.173(b)) 4. Is the area where containers stored inspected for evidence of leaks or corrosion at least weekly? [3745-66-74] (265.174) [documentation of inspections required under 3745-65-15 for TSDs] 5. Are containers holding ignitable or reactive waste located at least 50 feet (15 meters) from the facility's property line? [3745-66-76] (265.176) Are containers holding hazardous wastes stored separate from other materials which may interact with the waste in a	1.	 a. Closed [3745-66-73(A)] (265.173)? b. In good condition [3745-66-71] (265.171)? c. Compatible with the wastes stored in them [3745-66-72] 	<i>jv</i> — / — / — / — — — — — — — — — — — — — — — — — — —	
a manner which prevents container rupture or leakage? [3745-66-73(B)] (265.173(b)) 4. Is the area where containers stored inspected for evidence of leaks or corrosion at least weekly? [3745-66-74] (265.174) [documentation of inspections required under 3745-65-15 for TSDs] 5. Are containers holding ignitable or reactive waste located at least 50 feet (15 meters) from the facility's property line? [3745-66-76] (265.176) 6. Are containers holding hazardous wastes stored separate from other materials which may interact with the waste in a	2.		11	Организация «Оправания Вейгрума»
leaks or corrosion at least weekly? [3745-66-74] (265.174) [documentation of inspections required under 3745-65-15 for TSDs] Are containers holding ignitable or reactive waste located at least 50 feet (15 meters) from the facility's property line? [3745-66-76] (265.176) Are containers holding hazardous wastes stored separate from other materials which may interact with the waste in a	3.	a manner which prevents container rupture or leakage?	-y	Servere Processory and
least 50 feet (15 meters) from the facility's property line? [3745-66-76] (265.176) Are containers holding hazardous wastes stored separate from other materials which may interact with the waste in a	4.	leaks or corrosion at least weekly? [3745-66-74] (265.174)	<u>P/</u>	<u>just Time</u> 6/30/88
other materials which may interact with the waste in a	5.	least 50 feet (15 meters) from the facility's property line?		Marchano (Common analogo di Salamanana
	5.	other materials which may interact with the waste in a	<i>/</i>	Name of Street

RCRA LAND DISPOSAL RESTRICTION INSPECTION

Facility:	Vernitron P	iezcelectric	Hymakuuuuuussa jääkkuuuunga as likkuunggapa mikkuu maa askii 1993 (2 ^{ma} aa aikkallittistististi (2 maan a	nne a shidd dd Philygen a i dd dillidd dd e'n a b Gu dd dd dd dd dd dd gyr ffyr diwl dd fallin dd gyr yn
U.S. EPA I.D.	No.: <u>CHD</u>	05232429	()	arrang pagaman n _{am} a ang pagapapan pamahanan ang ang ang ang ang ang ang ang ang
Street:	232 Forb	s Rel		Mileson
City: Be	dford	State: Ohio	Zip Co	de: <u>44146-547</u> 8
Telephone:	(216) 232-	-860i		
Operator:				
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Inspection Dat # June 26,28	te: 4 / / Tim	e: <u>9:30 - 3:00</u> W <u>Affiliation</u>	eather Conditions: P	•
Inspectors:	. /		PA (216) 42 PA (216) 42	
Facility Repre	/		, Cas Stevens	
	<u>RCRA St</u>	atus F-Solvent	LDR Status California List	First Third
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INSPECTION SUMMARY

RCRA LAND DISPOSAL RESTRICTION INSPECTION APPLICABILITY CHECKLIST

Does the facility handle the following wastes?

				Gen.	Treat	Store	Disp.	Trans.
A.	F-S	olvent Wast	<u>es</u>	,				
	1.	F001					шт <u>ожу</u> натите	COUNTY AND ADDRESS OF THE PARTY.
	2.	F002			-	···········		
	3.	F003			4-C	A		
	4.	F004		AASSAC ANTIGOTORY IS NOT	and the state of t		Maring	«),,
	5.	F005			•	·	4.00 ₀₀ 1000	
		Note:	Use Appendix misclassifying	A to dete any of its	rmine whe wastes.	ther the fac	ility is	
				+ × _{1.11}		/		
В.	Cali	fornia List	Wastes					

1. Liquid hazardous waste (including free liquids associated with any solid or sludge) that contains the following metals at concentrations greater than or equal to those specified

		Gen.	Treat	Store	Disp.	Trans.
Arsenic	500 mg/L					
Cadmium	100 mg/L	,	**************************************		emo _{res} an	
Chromium VI	500 mg/L		<u>ئىشىن رىسىسى</u>		فاداند موروس والكنان	
Lead	500 mg/L		· •	**************************************		
Mercury	20 mg/L	, managed and the same of the	delication of the second		оприлатення	anning page 1
Nickel	134 mg/L) ————————————————————————————————————	anna managara (epitale	-,,		
Selenium	100 mg/L		emoralité égyagana	••••••••••••••••••••••••••••••••••••••	embyganna-ty-	complement (Carrier
Thallium	130 mg/L	مستوسلنج سيد	anniqua annum	accompanyati	egani materia anama	ф. М. Сентей (Politica IIII)

		Gen.	Treat	Store	Disp.	Trans.
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P041					-	
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P059					***************************************	
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P071		 			<u> </u>	
P081					<u></u>	<u></u>
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P084		·····			Witness Committee	<u> </u>
P087						*CO _{ST} and Company
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P092				**************************************	************	
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U249			# THE REAL PROPERTY.			100 <u>11111111111111111111111</u>

RCRA LAND DISPOSAL RESTRICTION INSPECTION

GENERATOR CHECKLIST

GENERATOR REQUIREMENTS

	-Solvent Wastes: Does the generator correctly determine the ppropriate treatability group of the waste?
If	yes, check the appropriate treatability group.
	Wastewaters containing solvents (less than or equal to 1% TOC by weight) Pharmaceutical wastewater containing spent methylene chloride All other spent solvent wastes
	alifornia List Wastes: Does the generator correctly determine as appropriate treatment standard of the waste?
3.	For liquid hazardous waste that contains PCBs at concentrations greater than or equal to 50 but less 500 ppm, is the treatment in accordance with existing TSCA thermal treatment regulations for burning in high efficiency boilers (40 CFR 761.60) or incineration (40 CFR 761.70)?
	Yes No NA
	If yes, specify the method:
b.	For liquid hazardous waste that contains PCBs at concentrations greater than or equal to 500 ppm, is the waste incinerated or disposed of by other approved alternate methods (40 CFR 761, 60 (e))?
	Yes No NA
	If yes, specify the method and state whether the facility has submitted a written request to the Regional Administrator or Assistant Administrator for an exemption from the incineration requirement:

			Yes	No	NA
	If yes, ch	eck the a	ppropriate treat	tability group.	
		filterabl	iter (less than less than less than less than less terms less terms less than less tha	% TOC by weig	ht and less than 1%
	List the w	aste code	and check the	correct treatme	ent standard group.
	Waste Coo	ie	Wastew	ater	Nonwastewater
	Fech		- CHANGES - CC		3/
		, name and a sp.		,c <u> </u>	
	- <u>2020//-2017</u>		T Wantabarra		
Waste	<u>Analysis</u>		The state of the s		
	Analysis F-Solvent				
1.	F-Solvent	Wastes the gene	rator determinent standards?		-solvent waste
1.	F-Solvent	Wastes the gene			-solvent wasteNA
1.	F-Solvent a. Does exces	Wastes the gene	nent standards?	No	
1.	F-Solvent a. Does exces	Wastes the gene eds treate was this	yes determination	No	
1.	F-Solvent a. Does exces	Wastes the gene eds treate was this	nent standards?	No	
1.	F-Solvent a. Does exces	Wastes the gene eds treate was this Knowled	yes determination ige of waste Yes any supporting	No made?No g data available	
1.	F-Solvent a. Does exces	Wastes the gene eds treate was this Knowled	yes determination ige of waste Yes any supporting	No made?No g data available	NA for review? Describ

	U.	treatment standards upon generation		
		Yes	_ No	NA
		If yes, specify the waste stream: Does the generator dilute the F-solv	Pork W/	mineral cilitary
	Ç.	Does the generator dilute the F-solv adequate treatment [268.3]?	ent waste a	s a substitute for
		Yes	_No	NA
	d.	How does the generator test F-solve waste stream changes?	nt waste wh	nen a process or
2.	Calif	fornia List Wastes		
	a.	Does the generator determine wheth according to the Paint Filter Liquid described by SW-846?		
		Yes <u>V</u>	_ No	NA
	b.	If the waste is determined to be a li is an absorbent added to the waste?	quid accord	ding to PFLT,
		Yes	_ No	NA
		What type of absorbent is used? Check the types of waste to which a added. Liquid hazardous waste having than or equal to 2	ibsorbent is	
		Liquid hazardous waste contai	ning metals	
		Liquid hazardous waste contai	ning free cy	yanides
	C.	Does the generator determine wheth extract or filtrate) in the waste equalevels or whether the waste has a phased on:	al or exceed	the prohibition
		- Knowledge of wastes		
		Yes	_ No	NA

	how this is adequate.
	- Testing Yes No NA
	If yes, list test method used:
d.	Does the generator determine if concentration levels in the PFLT filtrate exceed cyanide and metals concentration levels?
	Yes No NA
	- If yes, list test method used and constituent and concentration levels that exceeded prohibition levels:
e.	
	YesNoNA
. Firs	t Third Wastes:
a.	Does the generator correctly determine the appropriate treatment standard of the waste?
	Yes No NA
	Note: The treatment standards for first third wastes are given in Appendix D.
ъ.	Does the generator determine whether the First Third waste exceeds treatment standards upon generation?
	Yes No Soft hammer
	If yes, specify the waste stream: Platine wastes
	How was this determination made?
	- Knowledge of waste
	YesNo
	If yes, is any supporting data available for review? Describe how this is adequate.

			- TCLP
			Yes No NA
			- Total Constituent Analysis
			Yes No NA
			Provide the date of last test, the frequency of testing, and note any problems. Attach test results.
		C.	Does the generator dilute the waste as a substitute for adequate treatment [268.3]?
			Yes No NA
		đ.	How does the generator test the waste when a process or waste stream changes?
C.	<u>Man</u>	agem.	<u>ent</u>
	1.	On-S	Site Management
			estrict waste or waste that exceeds the treatment standards ted, stored, or disposed on-site?
			Yes No + 190 days
		If y	es, the TSD Checklist must be completed.
	2.	Off	
_		а.	-Site Management
•			Does the generator ship any waste that exceeds the treatment standards to an off-site treatment or storage facility?
·			Does the generator ship any waste that exceeds the treatment standards to an off-site treatment or
•		b.	Does the generator ship any waste that exceeds the treatment standards to an off-site treatment or storage facility?

Do	es notification contain the following?	4-	
	EPA Hazardous waste number(s)	Yes	No
	Applicable treatment standards	Yes	No.
	Manifest number	Yes	No
	Waste analysis data, if available	Yes	No
Ide <u>C/</u>	entify off-site treatment or storage fareveland; Liberty Solvents & Chemicals,	cilities: <u>65%</u> Tainsharg j	Chamical Services of C Them-Clair Cloveland
	es the generator ship any waste that rational atment standards to an off-site dispos		
	Yes No	0	
	es the generator provide notification tification to the disposal facility [268		
	Yes No	o	
Do	es notification contain the following?		
	EPA Hazardous waste number(s)	Yes	No
	Applicable treatment standards	Yes	No
	Manifest number	Yes	No
	Waste analysis data, if available	Yes	No
	Certification that the waste meets treatment standards	Yes	No
Ide	ntify off-site land disposal facilities:	√ amorting of the control of the c	
		200 CONTRACTOR CONTRAC	
	he waste subject to a nationwide vari case extension (268.5), or petition (268		
	Yes No		NA
rec	yes, does the generator provide notifice eiving facility that the waste is not p 8.7(a)(3)]?		
	Yes No)	

	į,	If yes, does the notification contain the	following inform	nation?
		EPA Hazardous waste number	Yes	No
		The corresponding treatment standards and all applicable prohibitions	Yes	No
		Manifest number	Yes	No
		Waste analysis data, if available	Yes	No
		Date the waste is subject to the prohibitions	Yes	No
	j.	Does the generator retain copies of all n a period of 5 years?	otices and certifi	
D.	<u>Demonstr</u>	ation and Certification "Soft Hammer"	Wastes MA	
	a.	Has the generator attempted to locate ar and recovery facilities that provide trea greatest environmental benefit [268.8(a)(tment that yields	the
	b.	Has the generator submitted to the Regi demonstration and certification contains to document its efforts to locate practice	onal Adminstrati	on a information
		A list of facilities and facility officials contacted?	Yes	No
		Addresses	Yes	No
		Telephone Numbers	Yes	No
		Contact dates	Yes	No
		Attach a copy of the demonstration	and certification	n
-	c.	If the generator has determined that the treatment for its wastes, has it sent docudemonstrating why it was not able to obfor the waste? Yes N If yes, attach a copy of written discussion	nmentation to EP. otain treatment of	A
		er land retract a such last trees respondent		

sh g. Do	oes the generat ipment of was	tes?		vith each sub	sequent
g. De	ipment of was	tes?	rtification w	ith each sub	າຂອນຄອ
re		Vac			
re	. •	1 62	No		
(i)	oes the generat ceiving facility	or provide the y with each sh			to the
	EPA I	Hazardous was	ste number	Yes	
(ii	i) Manif	est number		Yes	
(ii		analysis data.	,	Yes	l
	oes the generat ertifications for			ices, demonst	rations, an
	-	Yes .	No		
(i.e., boilers,	sing RCRA 26- furnaces, distil inks, elementar	llation units, v	vastewater	ocesses /V/	4

RCRA LAND DISPOSAL RESTRICTION INSPECTION

TRANSPORTER CHECKLIST

TR.	ANSPORTER REQUIREMENTS NA
A.	Does the transporter accumulate waste for more than 10 days [268.50(A)(3)]?
	Yes No
	If yes, check the appropriate regulatory status: Interim status for storage RCRA permit for storage If no, describe inventory controls to ensure that wastes are not stored for more than 10 days:
В.	Does the transporter mix, combine, or recontainerize wastes?
	Yes No
C.	Is the waste treated in an exempt treatment process on-site?
	Yes No

RCRA LAND DISPOSAL RESTRICTION INSPECTION

TSD CHECKLIST

TSD REQUIREMENTS

A.

Gen	reral '	Facility Stan	<u>dards</u>	-	
I.			nalysis plan cover 4.13 or 265.13]?	Part 268	
	o F	-solvent	Yes	No	NA
	o C	California Li	stYes	No	NA
	o F	irst Third	Yes	No .	NA
**************************************		s the facility tes and resid		tive chemical ar	nd physical analyses of
			Yes	No	
	а.	What date	was the waste anal	ysis plan last re	vised?
	b.	Are analyse	es conducted on-sit	e or off-site?	
				On-site	eOff-site
		Identify of	f-site lab:		
	c. .	Is F-solven	t waste analyzed u	sing TCLP?	
			Yes	No	NA
	d.	appropriate constituent	ird waste analyzed for the objective analysis for destra n/fixation technolo	of the specified action technolog	
			Yes	No	NA
		(The appropriate an constituent) for fir standards are giver	st third wastes	with specified treatment
	c.	Describe th	e frequency of sar	npling:	

	3.	Are the operating records, including analyses and quantities, complete [264.73/265.73]?
		Yes No
В.	Stor	age (268.50)
	1.	Are restricted wastes stored on-site?
		Yes No
		If no, go to C, Treatment.
	2.	If yes, check the appropriate method.
		Tanks Containers
	3.	Are all containers clearly marked to identify the contents and date(s) entering storage?
		Yes No NA
	4.	Do operating records track the location, quantity of the wastes, and dates that the wastes enter and leave storage?
		Yes No
	5.	Do operating records agree with container labeling?
		Yes No NA
	6.	Do operating records contain copies of the notice, certification, and demonstration (if applicable) from the generator for the past 5 years?
		Yes No

1.	Have wastes been stored for more than I year since the applicable LDR regulations went into effect?
	Yes No NA
	If yes, can the facility show that such accumulation is necessary to facilitate proper recovery, treatment, or disposal? Yes No
	If yes, state how:
8.	Have tanks been emptied at least once per year since the applicable LDR regulations went into effect?
	Yes No NA
	If yes, do the operating records show that the volume of waste removed from tanks annually equals or is more than the tank volume?
	Yes No
9.	Are all tanks clearly marked with a description of the contents, the quantity of wastes received, and date(s) entering storage, or is such information recorded and maintained in the operating record?
	Yes No NA
Tre	<u>atment</u>
l.	Does the facility treat restricted wastes other than in surface
	impoundments?YesNo
-	If no. go to D. Treatment in Surface Impoundments.

C.

<i>₩</i> €	scribe the treatment processes:
exempton.	
ana (fo wa:	es the facility, in accordance with an acceptable waste lysis plan, determine whether the residue or residue extract treatment standards expressed as concentrations in the ste extract) from all treatment processes is less than atment standards [268.7(b)]?
	Yes No
Is o	lilution used as a substitute for treatment?
	Yes No
app	e notifications, demonstration, and certification (if elicable) prepared by the generators kept in the facility's rating record?
	Yes No
	es the facility ship any waste or treatment residue that meets the atment standards to an off-site disposal facility?
	Yes No NA
	ves, does the treatment facility provide notification and tification to the disposal facility?
	Yes No
If :	ves, does notification contain the following?
	EPA Hazardous waste number(s) Yes N
	Applicable treatment standards YesN
	Manifest number Yes N
	Waste analysis data, if available Yes N
	Certification that the waste meets the treatment standards Yes N
īde	treatment standardsYes ntify off-site disposal facilities:

	3.	Does the facility ship any "soft hammer" waste to an off-site disposal facility?
		Yes No NA
		If yes, does the treatment facility send a copy of the generator's demonstration (if applicable) and certification to the disposal facility?
		Yes No
D.	Tres	tment in Surface Impoundments
	l.	Are restricted wastes placed in surface impoundments for treatment?
		Yes No
		If no, go to E, Land Disposal.
	2.	If yes, did the facility submit to the Agency the waste analysis plan and certification of compliance with minimum technology and ground-water monitoring requirements?
		Yes No
	3.	If the minimum technology requirements have not been met, has a waiver been granted for that unit?
		Yes No NA
	4.	Are representative samples of the sludge and supernatant from the surface impoundment tested separately, acceptably, and in accordance with the sampling frequency and analysis specified in the waste analysis plan?
		Yes No
		Attach test results.
	5.	Do the hazardous waste residues (sludges or liquids) exceed the treatment standards specified in 268.41, or where no treatment standards are established for a waste, the applicable prohibition levels?
		Yes No

	es the operating record adequately document the results waste analyses performed in accordance with 268.41?
	Yes No
	the hazardous waste residues exceed the treatment idards (268.41) or do not meet the prohibition levels?
	Sludge Yes No
	Supernatant Yes No
a.	If yes, are sludge and supernatant removed adequately on an anabasis?
	Yes No
b.	Are adequate precautions taken to protect liners, and do records indicate that liner integrity is inspected?
	Yes No
c.	Are residues subsequently managed in another surface impoundment?
	Yes No
d.	Are residues treated prior to disposal?
	Yes No

Ē.	Land	i Disposal
٠	pood +	Are restricted wastes placed in land disposal units such as landfills, surface impoundments, waste piles, wells, land treatment units, salt domes/beds, mines/caves, or concrete vault or bunker?
		Yes No
		Note: Do not include surface impoundments addressed in D, Treatment in Surface Impoundments.
		If yes, specify which units and what wastes each unit has received:
	2	Are these wastes disposed of in a new, replacement, or laterally expanded landfill or impoundment that meets the minimum technology requirements (double liner and leachate collection) and groundwater monitoring?
		Yes No
	3.	Does the facility operating record have notices, certifications, and demonstration (if applicable) from generators/storer/treaters for 5 years [268.7(c); 268.7(a),(b)]?
		Yes No
	4.	Does the facility obtain waste analysis data or test the wastes (according to the waste analysis plan) to determine that the wastes comply with the applicable treatment standards [268.7(c)]?
		Yes No
		If yes, at what frequency?
	5.	If restricted wastes that exceed the treatment standards are placed in land disposal units (excluding national capacity variances) [268.30(a)], does facility have an approved waiver based on no migration petition [268.6], an approved case-by-case capacity extension [268.5], or variance [268.44]?
-		Yes No
	6.	Does the facility dispose of restricted wastes that are subject to a national capacity variance?
		Yes No

disposed wastes that are subject to a national capacity variance, case-by case extensions [268.5], or no migration petitions [268.6]?
Yes No NA
What is the volume of the restricted wastes disposed of to date?
If the facility has a case-by-case extension, is the facility making progress as described in progress reports?
Yes No NA

APPENDIX A

SOLVENT IDENTIFICATION CHECKLIST

1.	Does the handler generate any of the for constituents (i.e., spent halogenated solve degreesing) as a result of being used in in pure form or commercial grade?	ents used in	
	tetrachloroethylene trichloroethylene methylene chloride 1,1,1-trichloroethane carbon tetrachloride chlorinated fluorocarbons	Yes Yes Yes Yes Yes Yes Yes Yes	No
2	Does the handler generate any of the fo constituents (i.e., spent halogenated solve being used in the process either in pure commercial grade?	ents) as a re	sult of
	tetrachloroethylene trichloroethylene methylene chloride 1,1,1-trichloroethane chlorobenzene trichlorofluoromethane 1,1,2-trichloro-1,2,2-trifluoroethane ortho-dichlorobenzene	Yes Yes Yes Yes Yes Yes Yes	No 0
3.	Does the handler generate any of the for constituents (i.e., spent nonhalogenated stresult of being used in the process eithe commercial grade?	olvents) as	2
	xylene acetone ethyl acetate ethyl benzene ethyl ether methyl isobutyl ketone n-butyl alcohol cyclohexanone methanol	Yes	No No No No No No No
	If the F003 waste stream has been mixed does the resultant mixture exhibit the ig characteristic?	i with a sol nitability Yes	

₹.	constituents (i.e., spent nonhalogenated s result of being used in the process eithe commercial grade?	solvents) as a
	cresols and cresylic acid nitrobenzene	YesNo YesNo
5.	Does the handler generate any of the fo constituents (i.e., spent nonhalogenated s result of being used in the process eithe commercial grade?	solvents) as a
	toluene methyl ethyl ketone carbon disulfide isobutanol pyridine	YesNoYesNoYesNoYesNoYesNoYesNo
6.	Are any of the constituents listed in qu 5 used for their "solvent" properties t (dissolve) or mobilize other constituents questions will be helpful in confirming	hat is to solubilize? The following
	(a) Are the constituents used as chemi	ical carriers?YesNo
	If yes, list the constituents.	
	(b) Are the constituents used for degr	reasing/cleaning?
	If yes, list the constituents.	
	Tetrachloroettyloge, mothylone calor	ile.
	1 12 tons a good of 2 to 2 your 2 ton ne	ACCOUNTY TO THE PARTY OF THE PA
	(c) Are the constituents used as dilue	nts? YesNo
	If yes, list the constituents.	No. do
	(d) Are the constituents used as extra	ctants?YesNo

ď	If yes, list the constituents.							
	(e) Are the constituents used for fabric scouring? YesNo							
	If yes, list the constituents.							
	(f) Are the constituents used as reaction and synthesis media? YesNo							
	If yes, list the constituents.							
	he responses to questions 1 through 6 led the inspector to eve that the waste may be an F-solvent, answer question 7.							
7.	Are any of the above constituents spent solvents? (A solvent is considered "spent" when it has been used and is no longer usable without being regenerated, reclaimed, or otherwise reprocessed.)							
8.	If the waste is a mixture of constituents as determined in questions 1 through 6, give the concentration before use of <u>all</u> the constituents in the solvent mixture/blend. For example:							
	5% methylene chloride 2% trichloroethylene 25% 1,1,1-trichloroethane 68% mineral spirits 100%							
	If the waste stream is a mixture containing a total of 10% or more (by volume) of one or more of the F001, F002, F004, or F005 listed constituents before use, it is a listed waste.							
	With respect to the F003 solvent wastes, if, before use, the waste stream is mixed and contains only F003 constituents, it is a listed waste. For example:							
	33% acetone 16% methanol 51% ethyl ether							

If the waste stream is a mixture containing F003 constituents and a total of 10% or more of one or more of the F001, F002, F004, and F005 listed constituents before use, it is a listed waste. For example:

50%	xylene	(F003)
12%	TCE	(F001)
<u> 38%</u>	mineral	spirits
100%		

If in light of the above, the handler appears to be generating F001 - F005 hazardous wastes, refer this facility to the enforcement official for followup actions verifying the use of solvents at the facility.

APPENDIX B TREATMENT STANDARDS FOR F-SOLVENTS

	CONCENTRA	ATION (IN MG/L)
F001-F005 SPENT SOLVENTS	WASTEWATERS	OTHER WASTES
Acetone	0.05	0.59
N-butyl	5.0	5.0
Carbon disulfide	1.05	4.81
Carbon tetrachloride	.05	.96
Chlorobenzene	.15	.05
Cresols (and cresylic acid)	2.82	.75
Cycohexanone	.125	.75
1,2-dichlorobenzene	.65	.125
Ethyl acetate	.05	.75
Ethyl benzene	05	.053
Ethyl ether	.05	.75
Isobutanol	5.0	5.0
Methanol	.25	.75
Methylene chloride	.20	.96
Methylene chloride (from the pharmac	eutical	
industry)	0.44	.96
Methyl ethyl ketone	0.05	0.75
Methyl isobutyl ketone	0.05	.33
Nitrobenzene	0.66	0.125
Pyridine	1.12	0.33
Tetrachloroethylene	0.079	0.05
Toluene	1.12	0.33
1,1,1-Trichloroethane	1.05	0.41
1,2,2-Trichlor 1,2,2-trifluoroethane	1.05	0.96
Trichloroethylene	0.062	0.091
Trichlorofluoromethane	0.05	0.96
Xylene	0.05	0.15

DETAILED DESCRIPTION OF FIRST THIRD WASTE CODES

§ 251.31 Wastes

- F006—Wastewater treatment sludges from electroplating operations except from the following processes: (1) Sulfunc acid anodizing of aluminum: (2) tin plating on carbon steel: (3) zinc plating (segregated basis) on carbon steel: (4) aluminum or zinc-aluminum plating on carbon steel: (5) cleaning/stripping associated with tinzinc and aluminum plating on carbon steel: and (6) chemical etching and milling of aluminum.
- F007—Spent cyanide plating bath solutions from electropiating operations.
- F008—Plating bath sludges from the bottom of plating baths from electroplating operations where cyanides are used in the process.
- F009—Spent stripping and cleaning bath solutions from electropiating operations where cyanides are used in the process.
- F019—Wastewater treatment sludges from the chemical conversion coating of alumi-

§ 261.32 Wastes

- K001—Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol.
- K004—Wastewater treatment sludge from the production of zinc yellow pigments:
- K008—Over residue from the production of chrome oxide green pigments.
- K011—Bottom stream from the wastewater stripper in the production of acrylonitrile.
- K013—Bottom stream from the acetonitrile column in the production of acrylonitrile.
- K014—Bottoms from the acetonitrile purification column in the production of acrylonitrile.
- K015—Still bottoms from the distillation of benzyl chloride.
- K016—Heavy ends or distillation residues from the production of carpon tetrachloride.
- K017—Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin.
- K018—Heavy ends from the fractionation column in ethyl chloride production.
- K019—Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production.
- K020—Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production.
- K021—Aqueous spent antimony catalyst waste from fluoromethanes production.
- K622—Distillation bottom tars from the production of phenoi/acetone from cumane.
- K024—Distillation bottoms from the production of phthalic anhydride from naphthalene.
- K025—Distillation bottoms from the production of nitrobenzene by the nitration of benzene.

- K030—Column bottom or heavy ends from the compined production of trichloroethylene and perchloroethylene.
- K031-By-products salts generated in the production of MSMA and encodylic acid.
- K035—Wastewater treatment sludges generated in the production of creosote.
- K036—Still bottoms from toluene reclamation distillation in the production of disulfoton.
- K037—Wastewater treatment sludge from the production of disulfoton.
- K044—Wastewater treatment sludges from the manufacturing and processing of explosives.
- K045—Spent carbon from the treatment of wastewater containing explosives.
- K046—Wastewater treatment sludges from the manufacturing, formulation and loading of lead-based initiating compounds.
- K047—Pink/red water from TNT operations.
- K048—Dissolved air flotation (DAF) float from the petroleum refining industry.
- K049—Stop oil emulsion solids from the petroleum refining industry.
- K050—Heat exchange bundle cleaning sludge from the petroleum refining industry.
- K051—API separator sludge from the petroleum refining industry.
- K052—Tank bottoms (leaded) from the petroleum refining industry.
- K060—Ammonia still lime sludge from coking operations.
- K061—Emission control dust/sludge from the primary production of steel in electric furnaces.
- K062—Spent pickle liquor from steel finishing operations in chlorine production.
- K069—Emission control dust/sludge from secondary lead smelting.
- K071—Brine purification muds from the mercury cells process in chlorine production. Where separately prepurified brine is not used.
- K073—Chlorinated hydrocarbon waste from the purification step of the diaphragm ceil process using graphite anodes
- K083—Distillation bottoms from aniline production.
- K084—Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organoarsenic compounds.
- K085—Distillation of fractionation column bottoms from the production of chlorobenzenes.
- K086—Soivent washes and sludges; caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments. driers, soaps, and stabilizers containing chromium and lead.
- K087-Decanter tank tar sludge from coking operations.
- K099—Untreated wastewater from the production of 2.4-D.

§ 251.JJ() Wastes

K100-Waste leaching solution from acid U007-Acrylamide leaching of emission control dust/sludge U009-Acrylonitrile from secondary lead smelting. U010-Mitomycin C K101—Distillation tar residues from the dis-U012-Aniline tillation of aniline-based compounds in U016-Benziciacridine the production of veterinary pharmaceuti-U018-Benz(a)anthracene cals from arsenic or organo-arsenic com-U019-Benzene U022-Benzo(a)pyrene counds. U029-Methyl bromide K102-Residue from the use of activated carbon for decolorization in the produc-U031-n-Butanoi tion of veterinary pharmaceuticals from U036-Chlordane, technical U037-Chlorobenzene arsenic or organo-arsenic compounds. K103-Process residues from aniline extrac-W041—n-Chloro-2.3-epoxypropane tion from the production of aniline. U043—Vinyi chloride U044—Chloroform K104—Combined wastewater streams gener-U044—Chloroform
U046—Chloromethyl methyl ether
U050—Chrysene
U051—Creosote
U053—Crotonaldehyde
U061—DDT
U063—Dibenz o (a, h) anthracene ated from nitrobenzene/aniline production. K106-Waste water treatment sludge from the mercury cell process in chlorine production. § 261.33(e) Wastes U064-1.2:7.8 Dibenzopyrene P001-Warfarin, when present at concentra-U066-Dibromo-3-chloropropane 1.2-U067—Ethylene dibromide tion greater than 0.3% P004—Aldrin P005—Allyl alcohol U074-1,4-Dichloro-2-butene U077-Ethane, 1.2-dichloro-U078-Dichloroethylene, 1.1-P010-Arsenic acid U086-N.N Diethylhydrazine P011-Arsenic (V) oxide P012-Arsenic (III) oxide U089-Diethylstilbestroi P015—Beryllium dust U103-Dimethyl sulfate P016-Bis-(chloromethyl) ether U105-2.4-Dinitrotoluene P018-Brucine U108-Dioxane, 1.4-P020-Dinoseb U115-Ethylene oxide P030-Soluble cyanide salts not elsewhere U122-Formaldehyde specified Ull4-Furan P036—Dichlorophenyiarsine P037—Dieidrin P039—Disulfoton U129-Lindane U130—Hexacnlorocyclopentadiene U133—Hydrazine P041—Diethyl-p-nitrophenyl phosphate U134—Hydrofluone acid P048-2.4-Dinitrophenol U137-Indeno(1,2,3-cd)pyrene P050-Endosulfan U151-Mecury P058-Fluoracetic acid, sodium salt U154-Methanoi P059—Heptachior U155-Methapyrilene P063-Hydrogen cyanide U157-3-Methylcholanthrene P068—Methyi Hydrazine U158-4.4-Methylene-bis-(2-chloroaniline) P069-Methyllactonitrile U159-Methyl ethyl ketone P070-Aldicarb U171-Nitropropane. 2-P071-Methyl parathion U177-N-Nitroso-N-methylurea P081—Nitroglycerine U180-N-Nitrosopyrrolidine P082-N-Nitrosodimethylamine U185-Pentachloronitrobenzene P084-N-Nitrosomethylvinyiamine U188-Phenol P087-Osmium tetrzoxide U192-Pronamide P089-Parachion U200-Reserpine P092-Phenylmercuric acetato U209-Tetrachioroethane. 1.1.2.2-P094-Phorate U210-Tetrachloroethylene P097-Famphur U211—Carbon tetrachloride U219—Thioures P102-Propargyi alcohol P105-Sodium azıde U220—Toluene U221—Toluenediamine P108-Strychnine and saits Pilo-Tetraethyl lead U223-Toluene diisocyanate P115-Thallium (I) suifate U228-Methylchloroform P120-Vanadium pentoxide U227-Trichloroethane, 1.1.2. P122-Zinc phosphide, when present at con-U228-Trichloroethylene centrations greater than 10% U237-Uracil mustard P173-Toxaphene U238-Ethyl carbamate U248-Warfann, when present at concentrations of 0.3% or less U249-Zine phosphide, when present at concentrations of 10% or less

APPENDIX D TREATMENT STANDARDS

laste Type:	Phermaceuticals Industry Sub Revision	category Wastewater	Nonwastewaters		Wostewaters		
Jaste No.	BDAT	Constituents	Total Composition	TCLP	Total Composition (mg/l)	TCLP	
F001- F005	Wastewaters: Steam stripping process	Methylene Chloride			0.44		
Jaste Type:	te Type: Wastewater Treatment Sludges from Electropiating. See Regulations for exceptions.		Nonwastewate	ers	Wastewaters		
Jaste No.	BDAT	Constituents	Total Composition (mg/k)	TCLP (mg/l)	Total Composition (mg/l)	TCLP	
F006	Nonwastewaters: Stabilization process using cement kiin dust as a binding agent. Wastewaters: Soft Hammer	Cadmium Chromium (total) Lead Nickel Silver Cyanides	Reserved	0.066 5.2 0.51 0.32 0.72 Reserved			
Waste Type:	Bottom Sediment Sludge from the Treatment of Wastewaters from Wood Preserving Processes that Use Creosote and/or Pentachlorophenol.		Nonwastewate	ers	Wastewaters		
Jaste No.	BDAT	Constituents	Total Composition	TCLP (mg/kg)	Total Composition (mg/l)	TCLP	
K001	Nonwastewaters and Wastewaters: Organic Constituents - rotary kiin incinerator Nonwastewaters: Metal Constituents - stabilization process	Napthalene Pentachlorophenol Phenanthrene Pyrene Toluene Xylenes Lead	8.0 37.0 8.0 7.3 0.14 0.16	0.51	0.15 0.88 0.15 0.14 0.14 0.16 0.037		
	Wastewaters: Hetal Constituents - chemical precipitation						

	Still Bottoms from the Distillation of Benzyl Chlorida		Nonwastewaters		Wastewaters	
Waste No.	BDAT	Constituents	Total Composition TCLP		Total Composition (mg/l)	TCLP
K015	Nonwastewaters: Liquid injection Incinerator (based on premise of "no ash") Wastewaters: Organic Constituents- Liquid injection Incineration Metal Constituents - chemical precipitation	Anthracene Benzal Chloride Benzo (b and/or k) Fluoranthene Phenanthrene Toluene Chromium (total) Nickel	No land disposal	No tand disposat	1.0 0.28 0.29 0.27 0.15 0.32 0.44	
Waste Type:	Production of Chlorinated Chemicals in the Organic Chemical Industry: heavy ends or distillation residues from the production of carbon tetrachloride (KO16); heavy ends from the fractionation column in ethyl chloride production (KO18); heavy ends from the distillation of ethylene dichloride in ethylene dichloride production (KO1 heavy ends from the distillation of vinyl chloride in viny chloride monomer production (KO20); column bottoms or heavends from the combined production of trichloroethylene and perchloroethylene (KO30)		Nonwastew	aters	Wastewaters	
	heavy ends from the distillat chloride monomer production (ends from the combined produc	ene dichloride production (KO19 tion of vinyl chloride in vinyl (KO2O); column bottoms or heuvy	-			
Waste No.	heavy ends from the distillat chloride monomer production (ends from the combined produc	ene dichloride production (KO19 tion of vinyl chloride in vinyl (KO2O); column bottoms or heuvy	-	TCLP	Total Composition (mg/l)	TC1 P
Waste No.	heavy ends from the distillat chloride monomer production (ends from the combined product perchloroethylene (K030)	ene dichloride production (K019 tion of vinyl chloride in vinyl (K020); column bottoms or hebvy ction of trichloroethylene and	Total Composition	TCLP		TCIP

aste No.	BOAT	Constituents	Total Composition (mg/kg)	TCLP	Total Composition (mg/l)	TCLP
1019		Bis(2-Chloroethyl)ether	5.6	100000	0.007	
		Chlorobenzene	6.0		0.006	
		Chloroform	6.0		0.007	
		p-Dichtorobenzene			0.008	
		1,2 Dichloroethane	6.0		0.007	
		Fluorene			0.007	
		Hexachloroethane	2.8		0.033	
		Nophthalene ·	5.6		0.007	
		Phenanthrene	5.6		0.007	
		1,2,4,5-Tetrachlorobenzene			0.017	
		Tetrachloroethene	6.0		0.007	
		1,2,4-Trichlorobenzene	19.0		0.023	
		1,1,1-Trichtoroethane	6.0		0.007	
K050		1,2-Dichloroethane	6.0		0.007	
		1,1,2,2·Tetrachloroethane	5.6		0.007	
		Tetrachloroethene	6.0		0.007	
1030		o-Dichiorobenzene			0.008	
		p-Dichtorobenzene			0.008	
		Hexachlorobutadiene	5.6		0.007	
		Hexachloroethane	28		0.033	
		Hexachloropropene	19			
		Pentachlorobenzene	28			
		Pentachloroethane	5.6	,	0.007	
		1,2,4,5-Tetrachlorobenzene	14		0.017	
		Tetrachloroethene	6.0		0.007	
		1,2,4-Irichlorobenzene	19	, p	0.023	· •
aste Type:	Distillation Bottom Tars fro Phenol/Acetone from Cumene	m the Production of	Northas tewate	ers	Vastewaters	
laste No.	BDAT	Constituents	Total Composition	TCLP	lotal Composition	TCLP
			(ng/k)	(mg/l)		
1022	Normastewaters:	Acetophenone	19			
	Organic Constituents -	Sum of Diphenylamine				
	fuel substitution unit	and Diphenylnitrosamine	13			
	Metal Constutuents .	Phenol	12			
	stabilization treatment	Toluene	0.034			
	process	Chromium (total)		5.2		
		Nickel		0.32		

histe Type:	Distillation Bottom Tars from the Production of Phthalic Anhydride from Naphthalene		Nonwastewaters			Wastewaters			
Jaste No.	BDAT	Constituents		Composition mg/kg)	TCLP	lotai	Composition (mg/l)	TCLP	
K024	Nonwestewaters and Westewaters: Rotary Kiln Incineration	Phthalic Acid		28			0.54		
Liste Type: Wastewater Treatment Studge from the Production of Disulfaton				Nonwastewaters			Wastewaters		
laste Ho.	BDAT	Constituents		Composition mg/kg)	TCLP	Total	Composition (mg/l)	ICLP	
¥037	Nonwastewaters and Wastewaters: Rotary Kiln Incineration	Disulfoton Toluene		0.1 28			0.003 0.028		
Insta Type:	Type: Explosives Industry: Wastewater Treatment Studges from the Manufacturing and Processing of Explosives (KO44); Carbon from the Treatment of Wastewater Containing ExploxO45); Pink/Red Water from TNT Operations (KO47).		(KO44); Spent ing Explosives		ers	Vastewaters			
laste No.	BDAT	Constituents	Total	— Composition	‡CLP	Total	Composition	TCLP	
K044 K045 K047	Open detonation/ open burning/chemical deactivation		No tar	No land disposal based on reactivity.		No land disposal based on reactivity			

histe Type:	Mastewater Treatment Sludge formulation, and Loading of Compounds		Nonwas tewate	:rs	Wastewaters	
iste No.	BDAT	Constituents	Total Composition	TCLP (mg/l)	Total Composition	TCLP
	Nonwastewaters (nonreactive subcategory): Stabilization Process	Lead		0.18		
uste Type:	Heat Exchanger Bundle Clean	Oll Emulaion Solids (KO49);	Nonwastewate	2F\$	Hastewater	
nste No.	BDAT	Constituents	Total Composition (mg/kg)	TCLP (mg/l)	Total Composition (mg/l)	TCLP
K048	Nonwastewaters: Organic Constituents - solvent extraction and/or incineration Metal Constituents - atabilization process Wastewaters: Organic Constituents - incineration	Benzene Benzo(a)pyrene Bis(2·ethylhexyl)phthalate Chrysene Di-n-butyl Phthalate Ethylbenzene Fluorene Naphthalene Phenanthrene Phenol	9.5 0.84 37 2-2 4.2 67 Reserved 7.7 2.7		0.011 0.047 0.043 0.043 0.060 0.011 0.050 0.033 0.039 0.047	
	Metal Constituents - chromium reduction, time and sulfide precipitation, and vacuum filtration	Pyrene Toluene Xylenes Cyanides (total) Arsenic Chromium (total) Nickel Selenium	2.0 9.5 Reserved 1.8	0.004 1.7 0.048 0.025	0.045 0.011 0.011 0.20	
κ049		Anthracene Benzene Benzo(a)pyrene Bis(2-ethylhexyl)phthalate Carbon Disulfide Chrysene 2,4-Dimethylphenol Ethylbenzene	6.2 9.5 0.84 37 2.2		0.039 0.011 0.047 0.043 0.011 0.043 0.033	

k049	(Continued)				•
		Naphthalene Phenanthrene Phenal Pyrene Toluene Xylenes Cyenides (total) Arsenic Chromium (total) Nickel Selenium	Reserved 7.7 2.7 2.0 9.5 Reserved 1.8	0.004 1.7 0.048 0.025	0.033 0.039 0.047 0.045 0.011 0.011
K050		Benzo(a)pyrene Phenol Cysnides (total) Arsenic Chromium (total) Nickel Selenium	0.084 2.7 1.8	0.004 1.7 0.048 0.025	0.047 0.047 0.20
		Lead			0.037
K051		Acenaphthene Anthracene Benzene Benzo(a)anthracene Benzo(a)pyrene Bis(2-ethylhexyl)phthalate Chrysene Di-n-butyl Phthalate Ethylbenzene Fluorene Naphthalene Phenanthrene Phenathrene Phenathrene Xylenes Cyanides (total) Arsenic Chromium (total) Nickel Selenium Lead	6.2 9.5 1.4 0.84 37 2.2 4.2 67 Reserved 7.7 2.0 9.5 Reserved 1.8	0.004 1.7 0.048 0.025	0.050 0.039 0.011 0.043 0.047 0.043 0.060 0.011 0.050 0.033 0.039 0.047 0.045 0.011
₹052		Benzene Benzo(a)pyrene o·Cresol p-Cresol 2,4·Dimethylphenol Ethylbenzene Naphthalene Phenanthrene Phenol Toluene	9.5 0.84 2.2 0.90 67 Reserved 7.7 2.7 9.5 Reserved		0.011 0.047 0.011 0.011 0.033 0.011 0.033 0.039 0.047 0.011

k052	(Continued)	Cyanides (total) Arsenic Chromium (total) Nickel Selenium Lead	1.8	0.004 1.7 0.048 0.025	0.20	
laste Type:	Emission Control Dust/Sludge of Steel in Electric Furnace		Nonwastewat	ers	Wastewaters	yyddynan ar y Landin ac y Gyddyn y Cyfrifiai y Cyfrifi
ingte No.	BDAT	Constituents	- Total Composition	TCLP (mg/l)	Total Composition	TCLP
K061	Nonwastewaters: High Zinc (15% or greater) Subcategory - high temperature metals recovery unit (HIMR) Low Zinc (less than 15%) Subcategory - stabilization	Cadnium Chromium (total) Lead Nickel		0.14 5.2 0.24 0.32		
haste Type:	Spent Pickle Liquor Generate Operations of Facilities Wil Steel Industries		Nonwastewat	ers	Wastewaters	And the second s
Taste No.	BDAT	Constituents	Total Composition	TCLP (mg/l)	Total Composition (mg/l)	TCLP
K062	Norwestewaters and Wastewaters: Chromium Reduction, Chemical Precipitation with Sulfide, Settling, Filtering and Dewatering of Solid Residues	Chromium (total) Lead Nickel		0.094 0.037	0.032 0.04 0.44	

Aiste Type:	Emission Control Dust/Sludg Smelting	e from Secondary Lead	Nonwas t cua t e	rs	Wastewaters	
Inste No.	BDAY	Constituents	Total Composition	TCLP	Total Composition	TCLP
K069	Nonwastewaters in Non-Calcium Sulfate Subcategory: recycling		No land disposa based on recycl			
laste Type:	Brine Purification Muds fro Process in Chlorine Product Prepurified Brine is Not Us	Ion, where Separately	Nonwastewate	:rs	Wastewaters	3
laste No.	BDAT	Constituents	Total Composition	TCLP (mg/l)	Total Composition (mg/l)	TCLP
к071	Norwastewaters: Solubilize mercury In sludge and convert to insoluble mercury sulfide sludge.	Hercury		0.025	0.030	
unste Type:	Distillation Bottoms from A	niline Production	Nonwastewate	èrs	Wastewaters	
Jaste No.	BDAT	Constituents	Total Composition	TCLP	Total Composition	TCLP
K083	Nonwastewaters and Wastewaters: No Ash Subcategory - Liquid injection inciners	for	No land disposa based on no ash			

Aste Type: Solvent Washes and Sludges, Caustic Washes and Sludges, or Waterwashes and Sludges from the Cleaning of Tubs and Equipment Used in the Formulation of Ink Pigments, Driers, Soaps, and Stabilizers

Containing Chromium and Lead

Nonwastewaters

Vastevaters

∤nste No.	BOAT '	Constituents	Total Composition (mg/kg)	ICLP (mg/l)	Total Composition (mg/l)	TCLP
K086	Nonwastewaters and	Acetone	0.37		0.015	
	Unstewaters,	Bis(2-ethylhexyl)phthalate	0.49	!	0.044	
	Solvent Washes	n-Butyl Alcohol	0.37		0.031	
	Subcategory:	Cyclohexenone	0.49		0.022	
	Organic Constituents •	1,2-Dichlorobenzene	0.49		0.044	
	Incineration	Ethyl Acetate	0.37		0.031	
	Metal Constituents -	Ethyl Benzene	0.031		0.015	
	hexavalent chromium reduction, chemical	Methanol	0.37		0.031	
	precipitation with	Methylene Chloride	0.037		0.031 0.031	
		Methyl Ethyl Ketone	0.37		0.031	
	excess lime, filtration	Methyl Isobutyl Ketone Naphthalene	0.37			
		Nitrobenzene	0.49 0.49		0.044 0.044	
		Tolucne	0.49		0.044	
		1,1,1-% ichloroethane	0.044		0.021	
		Trichloroethylene	0.031		0.029	
		Xylenes	0.015		0.015	
		Chromium (total)	0.013	0.094	0.32	
		Lead		0.37	0,037	
Waste Type:	Decanter Tank Tar Sludge fro	m Coking Operations	Nonwastewat	ers	Wastewaters	
Vaste No.	BOAY	Constituents	Total Composition (mg/kg)	TCLP (mg/l)	Total Composition (mg/l)	TCLP
K087	Nonwastewaters and	Acenophthalene	3.4		0.028	
	Wastewaters:	Benzene	0.071		0.014	
	Organic Constituents -	Chrysene	3.4		0.028	
	incineration in	fluoranthene	3.4		0.028	
	rotory kiin	Indeno (1,2,3-cd) pyrene	3.4		0.028	
	Metal Constituents -	Naphthalene	3.4		0.028	
	hexavalent chronium	Phenanthrene	3.4		0.028	
	reduction, chemical	Toluene	0.65		0.008	
	Drectbiletion with	AVIENES	0.070		0.016	
	precipitation with excess lime, filtration	Xyl enes Lead	0.070	0.51	0.014 0.037	

iste Type:	Untreated Wastewater from 2,4-Dichtorophenoxyacetic		Nonwastewate	ers	Wastewaters	
aste No.	BDAT	Constituents	Total Composition (mg/kg)	TCLP	Total Composition (mg/l)	TCLP
K077	Nonwastewaters and	2,4-Dichlorophenoxyacetic				
	Wastewaters: Chemical oxidation	Acid Hexachlorodibenzo-p-	1.0		1.0	
	using chiorine.	dioxins	0.001	1	0.001	
	•	Hexachlorodibenzofurans	0.001	•	0.001	
		Pentachlorodibenzo-p				
		dioxins	0.001		0.001	
		Pentachlorodibenzofurans	0.001		0.001	
		Tetrachlorodibenzo-p-				
		dioxins	0.001		0.001	
		Tetrachtorodibenzofurans	0.001		0.001	
aste Type:	from the Distillation of A	armaceuticals from Arsenic ds: Distillation Tar Residues Aniline-Based Compounds (K101); ctivated Carbon for Discolorizatio	n (K102)			
			Nonwastewaters		Wostewater	9
nste No.	BDAT	Constituents	Total Composition (mg/kg)	TCLP (mg/l)	Total Composition (mg/l)	TCLP

			Normos Cavalter &		W00107-2011	-
Waste No.	BDAT	Constituents	Total Composition (mg/kg)	TCLP (mg/l)	Total Composition (mg/l)	TCLP
K101	Nonwastewaters and Wastewaters: tow Armenic (less than iX total armenic) Subcategory of incineration in rotary kiln	Ortho-Nitroaniline Cadmium Chromium (total) Lead Nickel	.16	0.066 5.2 0.51 0.32	0.27 2.0 0.24 0.11 0.027	
K102		Ortho-Nitrophenol Cadmium Chromium (total) Lead Nickel	13	0.066 5.2 0.51 0.32	0.028 2.0 0.24 0.11 0.027	

Production of Aniline and Mitrobenzene/Aniline
Process Residues from Aniline Extraction (K103) and
Combined Wastewater Streams Generated from
Mitrobenzene/Aniline Production (K104)

Nonwastewaters

Vastewaters

	· · · · · · · · · · · · · · · · · · ·					
aste No.	BDAT '	Constituents	Total Composition (mg/k)	TCLP	Total Composition (mg/l)	TCLP
K103	Nonwastewaters and	Aniline	5.6		4.5	
	Vostevaters:	Benzene	6.0	· .	0.15	
	Organic Constituents ·	2,4-Dinitrophenol	5.6		0.61	
	solvent extraction,	Nitrobenzene	5.6		0.073	
	steam stripping, activated carbon	Phenol	5.6		1.4	
K104	edsorption, and	Aniline	5.6		4.5	
	incineration	Benzene	6.0		0.15	
		2,4-Dinitrophenot	5.6		0.61	
		Mitrobenzene	5.6		0.073	
		Phenol	5.6		1.4	
		Cyanides (total)	1.8		2.7	
uste Type:	Wastewater Treatment Sludge of Zinc Yellow Pigments	e from the Production	Nonwastewate 	:F\$	Wastewaters	
nste No.	BDAT	Constituents	Total Composition	TCLP	Total Composition	ICLP
K004	No land disposal based on no generation.					
aste Type:	Oven Residue from the Produ Green Pigments	uction of Chrome Oxide	Nonwastewate	ers	Wastewater	3
la ste No.	BDAT	Constituents	Total Composition	TCLP	Total Composition	TCLP
KOOB	No land disposal based on no generation.			<u> </u>		
						

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aste Type:	Aqueous Spent Antimony Cata Fluoromethanes Production	lyst Waste From	Nonwastewate	r s	Wastewaters	
iste No.	BDAT	Constituents	Total Composition	TCLP	Total Composition	TCLP
K021	No land disposal based on no generation.					
iste lype:	Distillation Bottoms from t Mitrobenzene by the Mitrati		Nonwastewate	rs	Wastewaters	AND THE RESERVE OF THE PROPERTY OF THE PROPERT
aste No.	BDAT	Constituents	Total Composition	TCLP	Total Composition	TCLP
x 025	No land disposal based on no generation.					
aste Type:	Still Bottoms from Toluene in the Production of Disulf		. Houwastewate	rs	Wastewaters	<u> </u>
laste No.	BDAT	Constituents	Total Composition	TCLP	Total Composition	TCLP
K036	No land disposal based on no generation.					
inste Type:	Ammonia Still Lime Studge f	rom Coking Operations	Monwastewate	rs.	Wastewaters	
laste No.	BDAT	Constituents	Total Composition	TCLP	Total Composition	TCLP
K060	No land disposal based on no generation.					
					The state of the s	***************************************

iste type:	Maste Leaching Solution from Acid Leaching of Emission Control Dust/Sludge from Secondary Lead Smelting	om Acid Leaching of ge from Secondary Lead	Nonwastewaters		Mastehater	
iste No.	BDAT	Constituents	ĭotal Composit∮on	TCLP	Total Composition	ICLP
K 100	No tend disposat based on no generation.			The second secon	A THE REAL PROPERTY OF THE PRO	